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Atty. Docket No. CA1432
PATENT APPLICATION

AMENDMENT UNDER 37 C.F.R. § 1.111
U.S. Application No.: 10/787,372

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. *(Currently Amended)* A data storage system, comprising:
 - a first data storage medium for storing data, the first data storage medium currently configured as an accessible medium;
 - a second data storage medium for storing a copy of the data, the second data storage medium currently configured as a standby medium;
 - first configuration information defining a switching trigger when the first data storage medium currently configured as the accessible medium becomes the standby medium and when the second data storage medium currently configured as the standby medium becomes the accessible medium; [[and]]
 - a data storage system manager using the first configuration information to control the switching;
 - a storage failure module operable to determine whether at least a portion of the storage system has failed; and
 - a manager operable to manage and modify a total storage capacity based on the failure of the portion of the storage system, wherein the manager causes a warning event when the storage system has reached a threshold capacity of the total capacity as modified.

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2. *(Original)* The system of claim 1, wherein the first data storage medium and second data storage medium are each in a power-saving state.
3. *(Original)* The system of claim 2, wherein the accessible medium is in a power-saving mode.
4. *(Original)* The system of claim 3, wherein the standby medium is in a power-saving mode.
5. *(Original)* The system of claim 3, wherein the standby medium is in a power-off mode.
6. *(Original)* The system of claim 2, wherein the accessible medium is read-only.
7. *(Original)* The system of claim 1, wherein the switching trigger includes a time period.
8. *(Original)* The system of claim 1, wherein the switching trigger includes an equation of access time.
9. *(Original)* The system of claim 1, wherein the switching trigger includes an

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administrative request.

10. *(Original)* The system of claim 1, further comprising a third data storage device for storing a copy of the data, the third data storage device currently configured as a standby medium.

11. *(Currently Amended)* A method of storing data in a storage system, comprising:
configuring a first data storage medium for storing data as an accessible medium;
configuring a second storage medium for storing a copy of the data as a standby medium;
identifying a switching trigger when the first storage medium currently configured as the accessible medium becomes the standby medium and the second storage medium currently configured as the standby medium becomes the accessible medium; [[and]]

switching the accessible medium and the standby medium after the switching trigger is identified;

determining whether at least a portion of the storage system has failed;
modifying a total storage capacity based on the failure of the portion of the storage system; and

causing a warning event when the storage system has reached a threshold capacity of the total capacity as modified.

12. *(Original)* The method of claim 11, wherein the first data storage medium and

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second data storage medium are each in a power-saving state.

13. *(Original)* The method of claim 12, wherein the accessible medium is in a power-saving mode.

14. *(Original)* The method of claim 13, wherein the standby medium is in a power-saving mode.

15. *(Original)* The method of claim 13, wherein the standby medium is in a power-off mode.

16. *(Original)* The method of claim 12, wherein the accessible medium is read-only.

17. *(Original)* The method of claim 11, wherein the switching trigger includes a time period.

18. *(Original)* The method of claim 11, wherein the switching trigger includes an equation of access time.

19. *(Original)* The method of claim 11, wherein the switching trigger includes an administrative request.

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20. *(Original)* The method of claim 11, further comprising configuring a third data storage medium for storing a copy of the data as a standby medium.

21. *(Currently Amended)* A data storage system, comprising:
a first data storage medium for storing data;
a second data storage medium for storing a copy of the data;
means for configuring the first data storage medium as an accessible medium and the second storage medium as a standby medium;
means for identifying a switching trigger when the first storage medium currently configured as the accessible medium becomes the standby medium and the second storage medium currently configured as the standby medium becomes the accessible medium; [[and]]
means for switching the accessible medium and the standby medium after the switching trigger is identified;
a storage failure module operable to determine whether at least a portion of the data storage system has failed; and
a manager operable to manage and modify a total storage capacity based on the failure of the portion of the storage system, wherein the manager causes a warning event when the storage system has reached a threshold capacity of the total capacity as modified.